VNS CCTV®

Day and night super wide dynamic camera

Operating Manual

Thank you for choosing this product. Please read this manual carefully before operating it. Keep the manual for future reference.

Things to note:

1. *Do not place it where there is too strong sunlight. This will demage the camera.*

2.Please avoid frequent vibration and impact, improper using and installation may damage the camera

3.This camera is designed for indoor/outdoor use. Operating temperature range is from –10 ~+50℃; Maximum humidity 90%.

4.Be sure the input voltage is within the specification of this camera.

5.Leave away any liquid and do not let water flow inside.

6.Do not attempt to repair this camera by yourself.

7.Need to repair if:

Under the following conditions, set the camera pulled out from the wall outlet, and please bring the camera to qualified service sector:

(1). When the cold wires or socket is damaged.

(2). If you spill a liquid or foreign matter fall into the internal camera affecting video quality.

(3). If the product is exposed to rain or water.

(4). If the camera shell is damaged.

(5). When the camera appears on the quality performance with a distinct difference.

⇤ Manufacturers retain their rights to change the appearance and specification so as to improve product quality without notice.

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1. Product Overview

VNS-WD800 is an advanced ultra-high-definition cameras with day & night-type and dynamic noise reduction function. its horizontal resolution color mode is over 560TVL. In low illumination condition, it will not only maintain a clear image but also reach a large hard disk space saving effect. In addition, the slow growing sensitivity upgrade technique can be achieved 0.002Lux ultra-high sensitivity.

1.1 Key Features:

- Camera name display
- More than 560TVL resolution
- Low lux：0.002Lux。
- Day/night, color, B/W mode switchable
- Wide dynamic, digital noise reduction feature
- OSD menu, easy to operate
- Exclusive image freeze, image flip function
- Digital zoom function
- RS485 control protocol
- Dynamic detection, alarm function
- Privacy protection
- Multilingual options
- Wide voltage dual power input

1.2 Contents:

- VNS-WD800　Color CCD Camera
- Operating manual
- Lens extension ring

1.3 Specifications

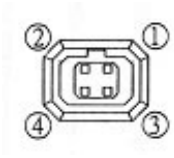
Image sensor	1/3"　SONY　Super HAD　CCD	
Signal System	PAL/NTSC	
Effective Pixels	768 (H) x 494 (V)	752 (H) x 582 (V)
Synchronization	Internal / Power Sync	
H. Resolution	Color: 560TVL；B/W: 700TVL	
Min illumination	0.002 Lux/F1.0(color); 0.01Lux/F1.0(B/W); 0.001Lux/F1.0 (Sense-up)	
S/N ratio (Y signal)	50dB (ɣ ,sharpness, Auto gain control off) Sharpness, Auto gain control adjustable	
Menu	OSD	
Video output	CVBS: 1.0Vp-p/75 Ω	
Lens drive	DC drive	
Camera name display	ON / OFF	
Day/night function	AUTO, COLOR, B/W, EXTERNAL	
Gain control	Low, high, off	
White balance	ATW/AWC/Manual/Outdoor(1800~10500˚K) ; Indoor(4500~8500˚K)	
Wide dynamic range	Low, medium, high	
OSD display	Built-in	
Color / B/W selection	Auto/Day/Night/External Control　(Day: Color / Night: B/W)	
Motion detection	ON / OFF　(8 pre-set area)	
Privacy shelter area	ON / OFF　(8 pre-set area)	
Operating Temperature / Humidity	－10 ~+50℃ below 90% RH	
Power supply	DC5.2～40V /AC5V～38V	
Power consumption	3.5WMAX	
Dimensions	134*65*62mm	

2. Functions

- Lens ring: for CS-mount lens or C-mount lens
- Camera installation screw holes: for brackets, PTZ Setup
- Camera support pad of screw hole: This pad can be fixed on the top or bottom of the camera ,support or suspension may be taken to install
- Auto iris lens socket: connect DC Drive Lens

Auto iris lens connections:

PIN NO.	DC
1	CONTROL -
2	CONTROL +
3	DRIVE +
4	DRIVE -



● Settings buttons

Confirm button

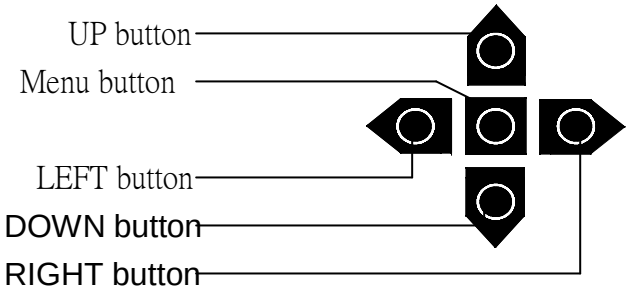
UP and DOWN button

LEFT and RIGHT button

3. Set operation

Settings button:

Use the 5 buttons on rear panel to setup



① UP button: move upward on menu to make selection

② DOWN button: move downward on menu to make selection

③ RIGHT button: move right on menu to make selection, or change parameters

④ LEFT button: move left on menu to make selection, or change parameters

⑤ Menu button: To confirm selection, selection of functions. If

sub-menu is available, (↵ symbol), press Menu button to enter into sub-menu. This is also a shortcut, to press once to access previous menu.

4. Function menu operation instruction

press the SET button to access the main menu

```
          main menu

1. lens                    DC
2. exposal
3. white balance       outdoor
4. BLC                 wide dynamic
5. DNR                     on
6. D&N                 auto
7. image adjustment
8. additional menu
   exit
```

4.1 lens

DC/manual lens selectable. Entering the menu to set measurement.

4.2 Exposal

```
          main menu

1. lens                    DC
2.  exposal
3. white balance           outdoor
4. BLC                 wide dynamic
5. DNR                     on
6. D&N                 auto
7. image adjustment
8. odditional menu
   exit
```

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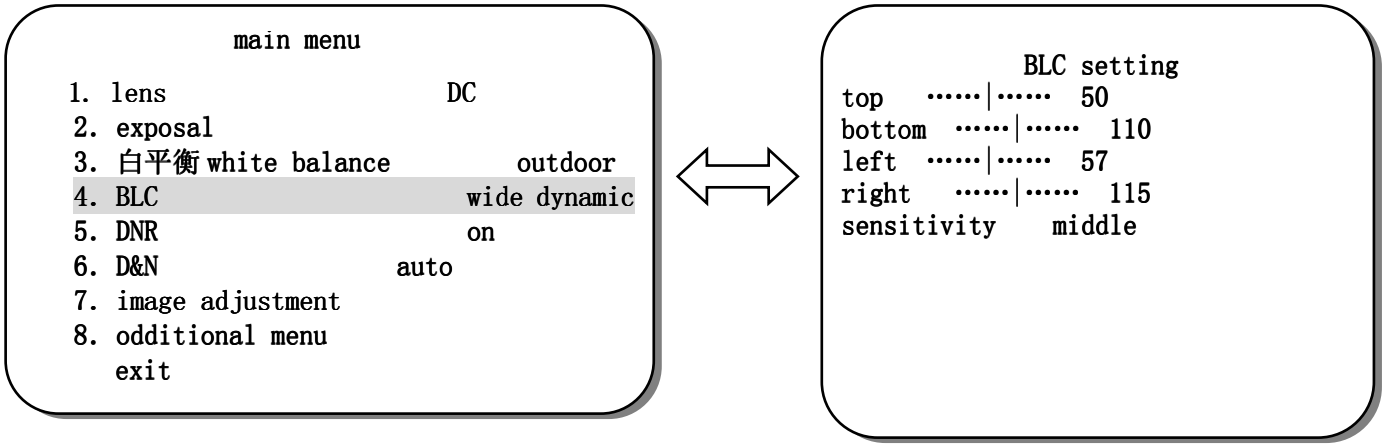
```
              exposal

1. shutter
2. AGC          top
3. sensitization        off
4. back to main menu
```

4.3White balance

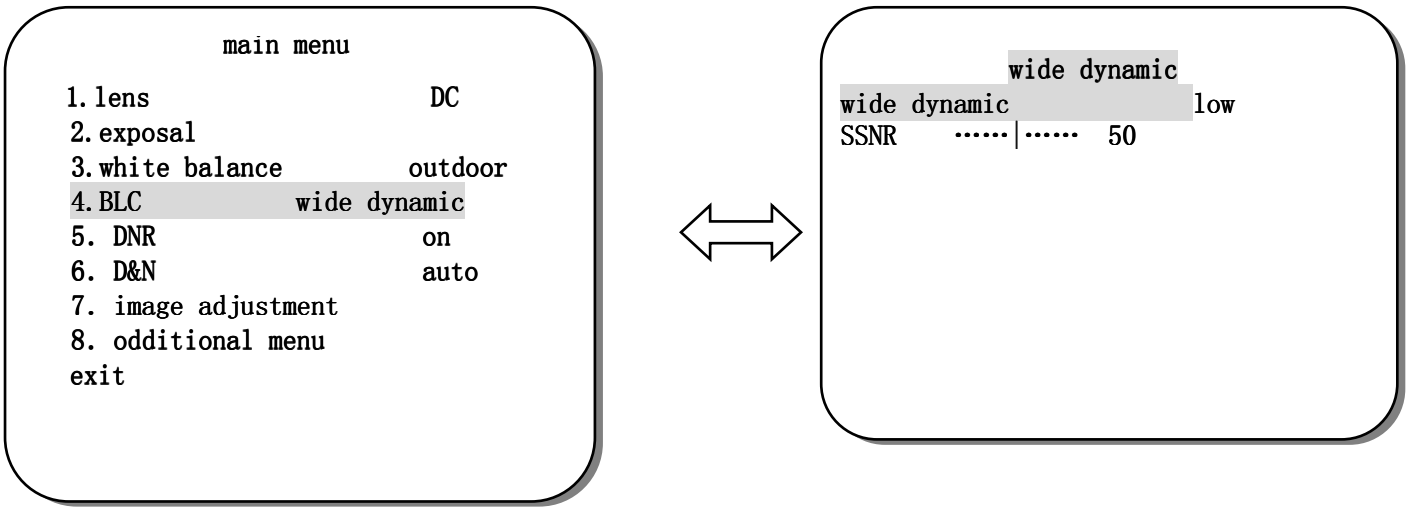
Indoor/outdoor/auto-tracking/manual.

4.4Back light compensation

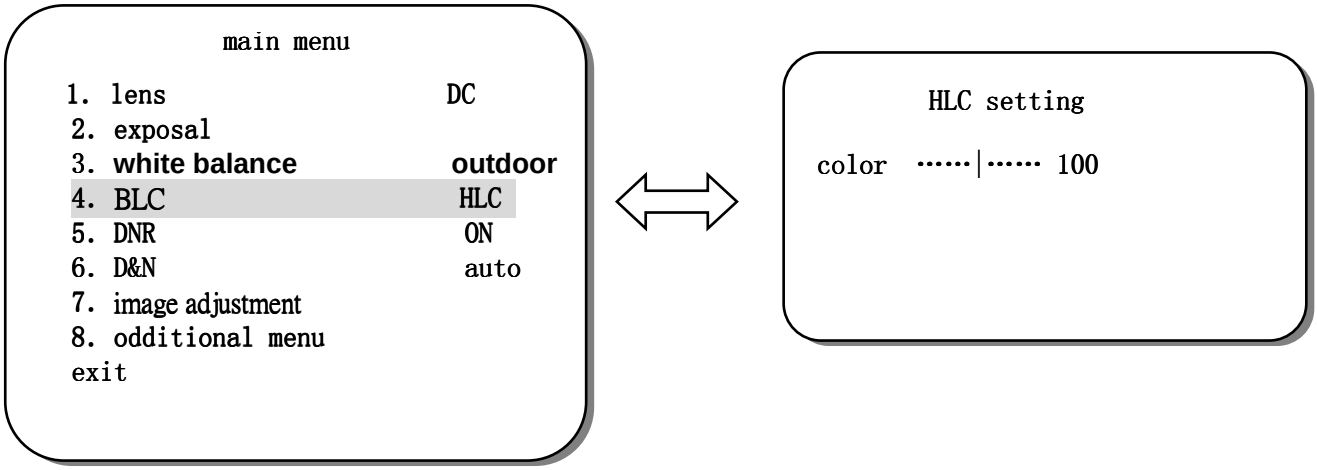
BLC setting



wide dynamic setting



HLC setting（sensitivity:0-220）:

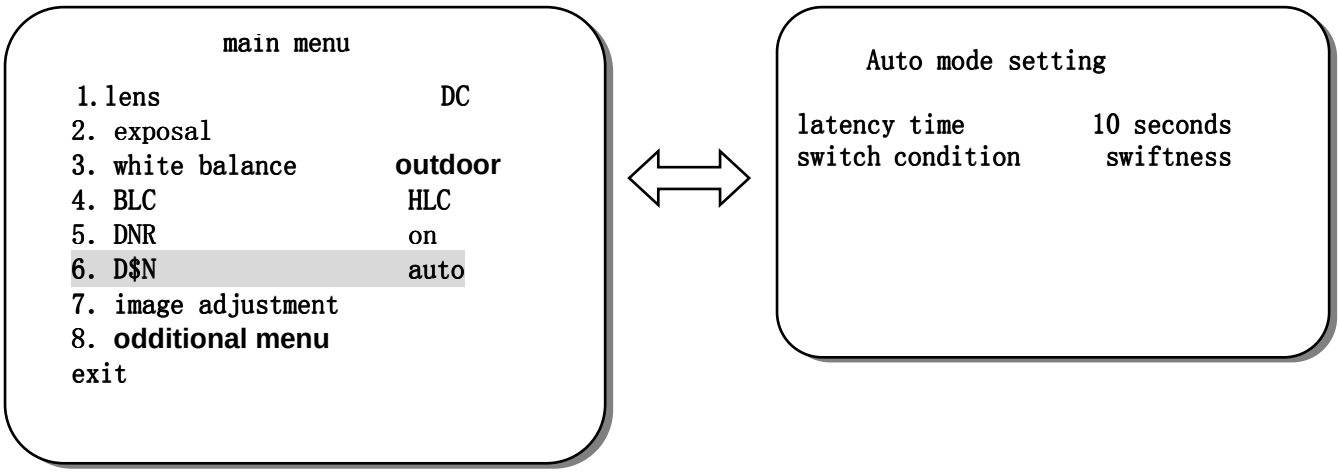


4.5DNR:

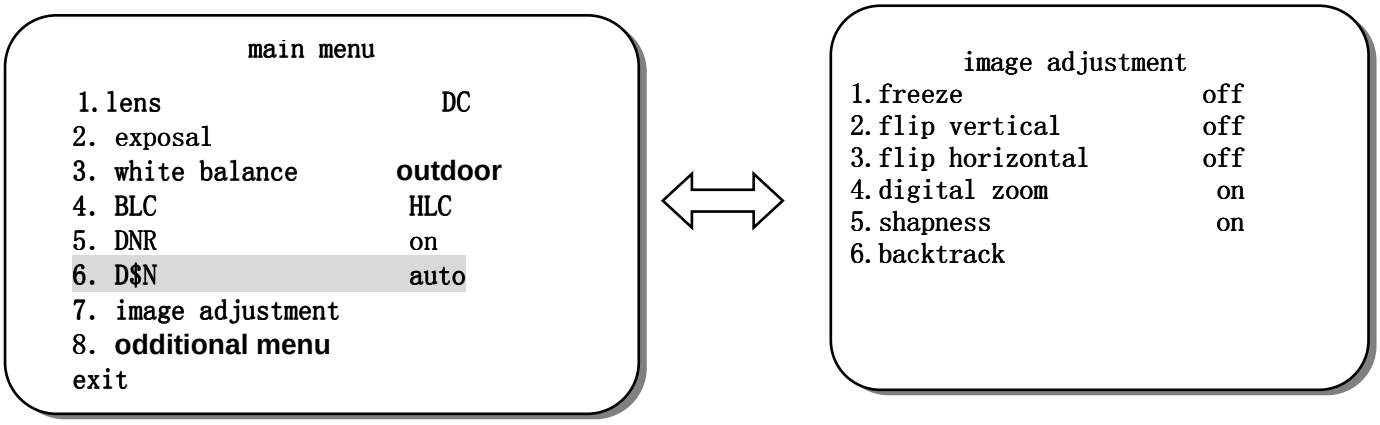
DNR sensitivity adjustment （1-32）。

4.6 day and night

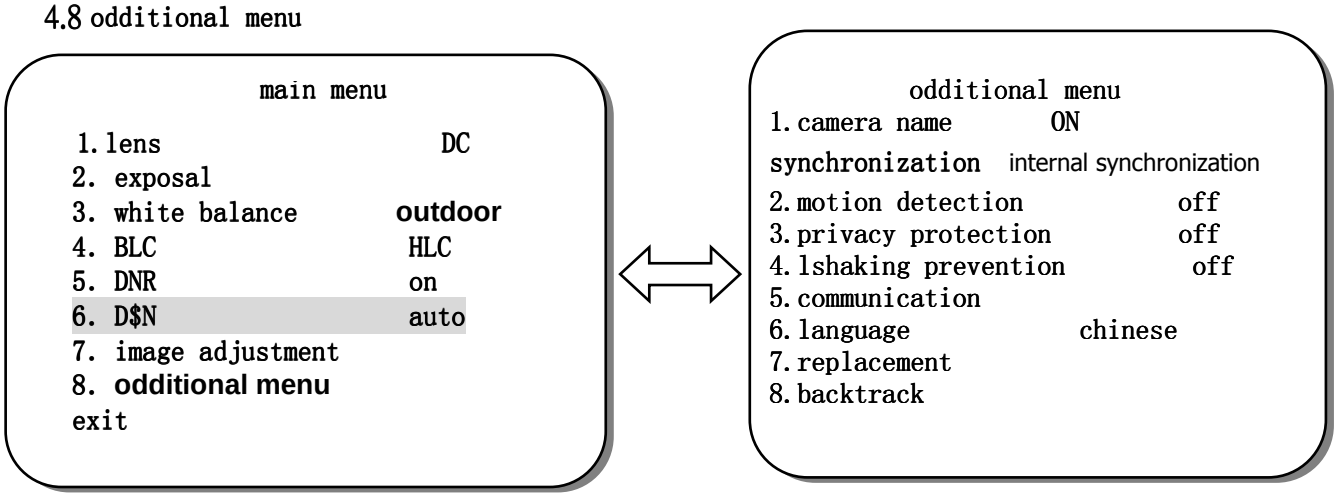
彩色/黑白/自动等多种模式。Color, B/W, Auto mode



processing image freeze, image flip, digital zoom and sharpness adjustment



4.8 oddditional menu



4.9 Exit

Exit OSD menu.